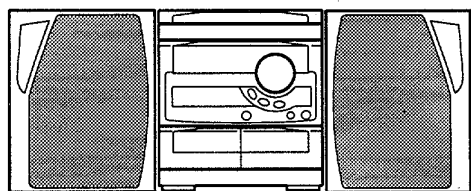


aiwa



NSX-K340



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 6ZM-3 PR1NM, YPR1N
- BASIC CD MECHANISM : 4ZG-1 VSGDNM, VSGD

- TYPE: HR, HC, HE

SYSTEM	CD-CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-K340	CX-NK340	SX-NS22	RC-7

- If requiring information about the CD mechanism, see service manual of 4ZG-1.
(S/M Code No. 09-977-206-10T)

MANUAL
SERVICE

SPECIFICATIONS

<FM Tuner section>

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 13.2 dBf
Antenna terminals 75 ohms (unbalanced)

<MW Tuner section>

Tuning range 531 kHz to 1602 kHz (9 kHz step)
 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity 350 μ V/m
Antenna Loop antenna

<SW Tuner section>

Tuning range 5.900 MHz ~ 17.900 MHz
Antenna Wire antenna

<Amplifier section>

Power output Rated: 32 W + 32 W
 (6 ohms, T.H.D 1 %, 1 kHz)
 Reference: 40 W + 40 W
 (6 ohms, T.H.D 10 %, 1 kHz)
Total harmonic distortion 0.2 %
 (20 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs VIDEO/AUX: 400 mV
 MIC: 1.0 mV (10 kohms)
Outputs CD DIGITAL OUT (OPTICAL)
 VIDEO OUT: 1.0 Vp-p (75 ohms)
 SPEAKERS: accept speakers of
 6 ohms or more
 PHONES (stereo jack) : accepts
 headphones of 32 ohms or more

<Cassette deck section>

Track format 4 tracks, 2 channels stereo
Frequency response 50 Hz ~10000 Hz
Recording system AC bias
Heads Deck 1 : Playback head x1
 Deck 2 : Recording/playback head
 x1, erase head x 1

<Compact disc player section>

Laser Semiconductor laser ($\lambda = 780$ nm)
D-A converter 1 bit dual
Signal-to-noise ratio 85 dB (1 kHz, 0 dB)
Harmonic distortion 0.05 % (1 kHz, 0 dB)
Wow and flutter Unmeasurable
Video signal NTSC/PAL color format
 (selectable)
Video data MPEG 1
Audio data MPEG 1, LAYER 2

<Speaker system SX-NS22>

Cabinet type 2 way, bass reflex (magnetic
 shielded type)
Speakers Woofer :
 120 mm cone type
 Tweeter :
 10 mm ceramic type
Impedance 6 ohms
Output sound pressure level 87 dB/W/m
Dimensions (W x H x D) 240 x 304 x 250 mm
Weight 2.7 kg

<General>

Power requirements 120 V/220 - 240 V AC,switchable
 50/60 Hz
Power consumption 105 W
**Dimensions of main unit
 (W x H x D)** 260 x 308.3 x 350 mm
Weight of main unit 5.8 Kg

• Design and specifications are subject to change without
 notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstråling, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

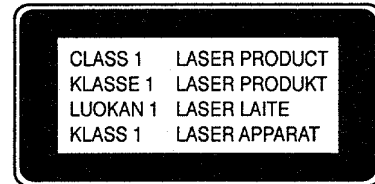
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

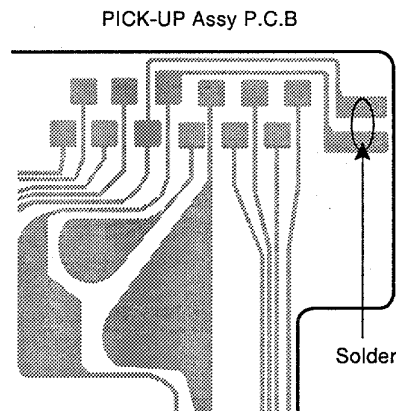


Precaution to replace Optical block

(KSS – 213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in figure right.



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C118	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-020-454-010	IC, DN6851		C201	87-010-401-080		CAP, ELECT 1-50V
	86-NFZ-642-010	IC, NJM4558LD		C202	87-010-401-080		CAP, ELECT 1-50V
	87-017-804-010	IC, BU4052BCP		C203	87-018-202-080		CAP, CERAM. 6800PF
	87-NF8-612-010	IC, M62420SPL		C204	87-018-202-080		CAP, CERAM. 6800PF
	87-NF8-618-010	IC, LC72131(L)		C207	87-010-260-080		CAP, ELECT 47-25V
	87-NF8-617-010	IC, LA1836(L)		C208	87-010-260-080		CAP, ELECT 47-25V
	87-NH8-602-010	C-IC, UPD78044HGF-260-3B9		C211	87-010-374-080		CAP, ELECT 47-10V
	87-NF8-619-010	IC, SPS-442-1-A		C212	87-010-374-080		CAP, ELECT 47-10V
	87-017-959-010	IC, M65843P		C213	87-010-260-080		CAP, ELECT 47-25V
	87-027-938-010	IC, TC4053BP		C214	87-010-260-080		CAP, ELECT 47-25V
	87-A20-796-010	IC, BU2090		C219	87-010-544-080		CAP, ELECT 0.1-50V
				C220	87-010-544-080		CAP, ELECT 0.1-50V
				C227	87-010-260-080		CAP, ELECT 47-25V
				C229	87-018-113-080		CAP, CER 33P-50V
TRANSISTOR				C230	87-018-113-080		CAP, CER 33P-50V
	87-026-463-080	TR, 2SA933SRS		C301	87-018-195-080		CAP, CER 1200P-16V
	89-213-702-010	TR, 2SB1370 (1.8W)		C302	87-018-195-080		CAP, CER 1200P-16V
	89-333-317-080	TR, 2SC3331 (0.5W)		C303	87-010-263-080		CAP, ELECT 100-10V
	87-A30-083-080	TR, CSD1489B		C304	87-010-263-080		CAP, ELECT 100-10V
	89-113-187-080	TR, 2SA1318TU		C309	87-010-546-080		CAP, ELECT 0.33-50V
	87-026-269-080	TR, DTA114ES		C310	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-112-080	TR, C2N5551		C311	87-018-130-080		CAP, TC-U 820P-50 B
	87-A30-109-010	TR, 2SD 2495		C312	87-018-130-080		CAP, TC-U 820P-50 B
	87-A30-108-010	TR, 2SB1626		C314	87-010-260-080		CAP, ELECT 47-25V
	87-A30-047-080	TR, CSD655E		C351	87-018-131-080		CAP, CER 1000P-50V
	86-NFZ-647-080	TR, DTC144ESA		C352	87-018-131-080		CAP, CER 1000P-50V
	86-NFZ-650-080	TR, DTA144WSA		C353	87-010-263-080		CAP, ELECT 100-10V
	86-NFZ-649-080	TR, DTC143XSA		C354	87-010-263-080		CAP, ELECT 100-10V
	86-NFZ-645-080	TR, DTA114YSA		C360	87-010-370-080		CAP, E 330-6.3 SME
	87-A30-092-080	FET, 2SK439E/F		C401	87-010-401-080		CAP, ELECT 1-50V
	89-305-352-380	TR, 2SC535(B/C)		C402	87-010-401-080		CAP, ELECT 1-50V
	86-NFZ-657-080	TR, 2SC19230		C403	87-018-118-080		CAP, TC-U 82P-50 B
	87-026-462-080	TR, 2SC1740 S(RS 0.3W)		C404	87-018-118-080		CAP, TC-U 82P-50 B
	89-320-011-080	TR, 2SC2001 (15W)		C452	87-010-385-080		CAP, ELECT 220-25V
	87-A30-152-080	TR, 2SC5395F		C458	87-018-131-080		CAP, CER 1000P-50V
	87-026-245-080	TR, DTC114ES		C459	87-018-128-080		CAP, CERA-SOL SS 560P
	89-109-521-080	TR, 2SA952 (0.6W)		C461	87-018-126-080		CAP, TC-U 390P-50 B
	87-A30-084-080	TR, CSB1058B		C462	87-018-126-080		CAP, TC-U 390P-50 B
	86-NFZ-648-080	TR, DTA143ESA		C471	87-010-400-080		CAP, ELECT 0.47-50V
	87-A30-090-080	FET, 2SK2541		C472	87-010-400-080		CAP, ELECT 0.47-50V
				C505	87-010-545-080		CAP, ELECT 0.22-50V
				C506	87-010-545-080		CAP, ELECT 0.22-50V
				C510	87-010-405-080		CAP, ELECT 10-50V
				C511	87-010-260-080		CAP, ELECT 47-25V
DIODE				C512	87-010-260-080		CAP, ELECT 47-25V
	87-A40-393-090	DIODE, 1N5402 GW(F20)		C513	87-010-221-080		CAP, ELECT 470-10V
	87-070-274-080	DIODE, 1N4003 SEM		C515	87-010-401-080		CAP, ELECT 1-50V
	87-A40-236-080	ZENER, MTZJ24D		C516	87-010-401-080		CAP, ELECT 1-50V
	87-A40-246-080	DIODE, 1N4148 T-72		C517	87-018-134-080		CAPACITOR, TC-U 0.01-16
	87-017-933-080	ZENER, MTZJ10D		C518	87-018-134-080		CAPACITOR, TC-U 0.01-16
	87-A40-235-080	ZENER, MTZJ9.1C		C701	87-010-404-080		CAP, ELECT 4.7-50V
	87-A40-234-080	ZENER, MTZJ5.6A		C711	87-010-402-080		CAP, ELECT 2.2-50V
	87-A40-291-080	DIODE, 1N4148M(CPT)		C712	87-010-112-080		CAP, ELECT 100-16V
	87-017-932-080	ZENER, MTZJ6.2B		C722	87-018-149-080		CAP, TC-U 15P-50 CH
	87-070-136-080	ZENER, MTZJ5.1B		C728	87-010-248-080		CAP, ELECT 220-10V
				C733	87-018-148-080		CAP, TC-U 12P-50 CH
				C741	87-010-546-080		CAP, ELECT 0.33-50V
				C742	87-010-546-080		CAP, ELECT 0.33-50V
				C771	87-010-405-080		CAP, ELECT 10-50V
				C773	87-018-208-080		CAP 0.047-50F
				C774	87-010-263-080		CAP, ELECT 100-10V
				C775	87-010-405-080		CAP, ELECT 10-50V
				C777	87-010-400-080		CAP, ELECT 0.47-50V
				C778	87-010-401-080		CAP, ELECT 1-50V
MAIN C.B				C779	87-010-401-080		CAP, ELECT 1-50V
C102	87-016-055-090	CAP, E 3300-42 HI-R		C791	87-010-401-080		CAP, ELECT 1-50V
C103	87-A10-627-090	CAP, E 2200-50 M SMG		C792	87-018-196-080		CAP, CER 1500P-16V
C105	87-018-127-080	CAP, CER 470P-50V		C794	87-010-260-080		CAP, ELECT 47-25V
C106	87-010-408-080	CAP, ELECT 47-50V		C796	87-010-403-080		CAP, ELECT 3.3-50V
C107	87-010-384-080	CAP, ELECT 100-25V					
C108	87-010-386-080	CAP, E 330-25 SME					
C109	87-010-383-080	CAP, ELECT 33-25V					
C110	87-010-383-080	CAP, ELECT 33-25V					
C111	87-010-247-080	CAP, ELECT 100-50V					
C112	87-010-263-080	CAP, ELECT 100-10V					
C113	87-010-403-080	CAP, ELECT 3.3-50V					
C114	87-010-374-080	CAP, ELECT 47-10V					

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C799	87-010-405-080		CAP, ELECT 10-50V	C207	87-010-544-040		CAP,E 0.1-50 SME
C801	87-018-102-080		CAP,TC-U 6.8P-50 SL	C208	87-010-263-040		CAP,E 100-10
C806	87-018-101-080		CAP,TC-U 5.6P-50 SL	C209	87-018-205-080		CAP, CERA-SOL 0.022
C807	87-018-102-080		CAP,TC-U 6.8P-50 SL	C210	87-018-208-080		CAP 0.047-50F
C808	87-018-098-080		CAP,TC-U 3.3P-50 SL	C211	87-A10-189-040		CAP,E 220-10
C809	87-018-119-080		CAP, CER 100P-50V	C212	87-018-208-080		CAP 0.047-50F
C811	87-018-107-080		CAP,TC-U 18P-50 SL	C213	87-010-494-040		CAP,E 1-50 GAS
C815	87-018-134-080		CAPACITOR,TC-U 0.01-16	C215	87-018-149-080		CAP,TC-U 15P-50 CH
C821	87-018-148-080		CAP,TC-U 12P-50 CH	C216	87-018-115-080		CAP, CER 47P-50V
C822	87-018-111-080		CAP, CERA-SOL SS 27P	C217	87-018-113-080		CAP, CER 33P-50V
C823	87-018-111-080		CAP, CERA-SOL SS 27P	C218	87-018-205-080		CAP, CERA-SOL 0.022
C824	87-018-109-080		CAP, CER 22P-50V	C220	87-018-127-080		CAP, CER 470P-50V
C903	87-010-401-080		CAP, ELECT 1-50V	C221	87-018-205-080		CAP, CERA-SOL 0.022
C941	87-018-107-080		CAP,TC-U 18P-50 SL	C225	87-018-205-080		CAP, CERA-SOL 0.022
C943	87-018-134-080		CAPACITOR,TC-U 0.01-16	C226	87-018-134-080		CAPACITOR,TC-U 0.01-16
C944	87-014-051-080		CAPACITOR (PP), 560P	C301	87-010-421-040		CAP,E 4.7-50 5L
C945	87-018-134-080		CAPACITOR,TC-U 0.01-16	C302	87-010-404-040		CAP,E 4.7-50 SME
C950	87-014-073-080		CAP,PP 4700P-100 J	C304	87-010-421-040		CAP,E 4.7-50 5L
C952	87-018-134-080		CAPACITOR,TC-U 0.01-16	C305	87-010-404-040		CAP,E 4.7-50 SME
C953	87-018-134-080		CAPACITOR,TC-U 0.01-16	C402	87-010-545-040		CAP,E 0.2-50 SME
C954	87-010-400-080		CAP, ELECT 0.47-50V	C403	87-018-118-080		CAP,TC-U 82P-50 B
C955	87-018-134-080		CAPACITOR,TC-U 0.01-16	C404	87-010-544-040		CAP,E 0.1-50 SME
C956	87-010-263-080		CAP, ELECT 100-10V	C406	87-018-130-080		CAP,TC-U 820P-50 B
C999	87-018-209-080		CAP, CER 0.1-50V	C407	87-010-406-040		CAP,E 22-50 SME
CF801	87-008-261-010		FILTER, SFE10.7MA5-A	C408	87-010-405-040		CAP,E 10-50
D801	87-A40-226-080		VARI-CAP,SVC251SPA	C409	87-010-248-040		CAP,E 220-10 SME
D802	87-A40-226-080		VARI-CAP,SVC251SPA	C410	87-010-405-040		CAP,E 10-50
J201	87-A60-024-010		JACK 6.3BLK W/S WKM	C411	87-018-209-080		CAP, CER 0.1-50V
J202	87-A60-238-010		TERMINAL,SP 4P (MSC)	C412	87-010-401-040		CAP,E 1-50 SME
J203	87-A60-354-010		JACK,PIN 2P MSP -242V-05	C501	87-010-263-040		CAP,E 100-10
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C502	87-018-134-080		CAPACITOR,TC-U 0.01-16
L451	86-NFZ-696-010		COIL,OSC 85KHZ BIAS	C503	87-018-127-080		CAP, CER 470P-50V
L741	87-A50-015-010		COIL,FM DET(TOK)	C504	87-018-127-080		CAP, CER 470P-50V
L742	87-A90-052-010		FLTR,CFMT-450A(TOK)	C505	87-010-374-040		CAP,E 47-10
L750	87-005-165-080		COIL 1UH (H,E)	C511	87-010-260-040		CAP,E 47-25 SME
L801	87-A50-110-010		COIL,FM BPF EX	C512	87-010-544-040		CAP,E 0.1-50 SME
L802	87-006-244-010		COIL,RF FM 3-1/2T,L4	C514	87-010-544-040		CAP,E 0.1-50 SME
L803	87-006-246-010		COIL,RF FM 3-1/2T,L	C516	87-010-401-040		CAP,E 1-50 SME
L804	86-NFZ-694-080		COIL,2.2UH K CECS	FL301	82-NF7-631-010		FL 7BT-185GK
L805	87-A50-111-110		COIL,FM OSC EX	J401	87-A60-284-010		JACK,3.5MO (MSC)
L806	86-2A1-604-110		IFT,FM IFT 7-6.2	L501	87-005-456-080		COIL,1000UHFLR50,K
L807	86-NFZ-694-080		COIL,2.2UH K CECS	S301	87-A90-095-080		SW,TACT EVQ11G04M
L901	86-NF4-666-010		AM PACK 3(TOK)	S302	87-A90-095-080		SW,TACT EVQ11G04M
L941	87-A50-022-010		COIL,ANT SW(COI)	S303	87-A90-095-080		SW,TACT EVQ11G04M
L942	87-A50-021-010		COIL,OSC SW(COI)	S304	87-A90-095-080		SW,TACT EVQ11G04M
L943	87-005-372-080		COIL S LMHM	S305	87-A90-095-080		SW,TACT EVQ11G04M
L944	87-003-131-080		COIL, 10MH	S306	87-A90-095-080		SW,TACT EVQ11G04M
PR202	87-026-681-080		PROTECTOR,5A 60V 491	S307	87-A90-095-080		SW,TACT EVQ11G04M
PR401	87-A90-246-080		PROTECTOR,0.25A 60 4	S308	87-A90-095-080		SW,TACT EVQ11G04M
R223	87-A00-258-080		RES,M/F 0.22-1W J	S309	87-A90-095-080		SW,TACT EVQ11G04M
R224	87-A00-258-080		RES,M/F 0.22-1W J	S310	87-A90-095-080		SW,TACT EVQ11G04M
SFR451	87-A90-432-080		SFR,30K H NVZ6TLTA<HC,HR>	S311	87-A90-095-080		SW,TACT EVQ11G04M
SFR451	87-024-435-080		SFR,33K RH063EC<HE>	S312	87-A90-095-080		SW,TACT EVQ11G04M
SFR452	87-A90-432-080		SFR,30K H NVZ6TLTA<HC,HR>	S313	87-A90-095-080		SW,TACT EVQ11G04M
SFR452	87-024-435-080		SFR,33K RH063EC<HE>	S314	87-A90-095-080		SW,TACT EVQ11G04M
SFR722	87-A90-500-080		SFR,10K H NVZ6TLTA	S315	87-A90-095-080		SW,TACT EVQ11G04M
TC941	87-011-220-080		TRIMMER CAP 20P VTC	S316	87-A90-095-080		SW,TACT EVQ11G04M
TC942	87-011-221-080		CAP, TRIMMER 30P	S317	87-A90-095-080		SW,TACT EVQ11G04M
W101	83-NE2-618-110		F-CABEL,5P-2.5	S318	87-A90-095-080		SW,TACT EVQ11G04M
W102	88-906-531-110		FF-CABLE,6P 1.25	S319	87-A90-095-080		SW,TACT EVQ11G04M
X703	87-A70-044-010		VIB, CER CMU2-456A15	S320	87-A90-095-080		SW,TACT EVQ11G04M
X721	86-NFZ-651-010		VIB,XTAL 4.500MHZ CSA-309	S321	87-A90-095-080		SW,TACT EVQ11G04M
				S323	87-A90-095-080		SW,TACT EVQ11G04M
				S324	87-A90-095-080		SW,TACT EVQ11G04M
FRONT C.B				SW201	87-NF8-616-010		SW,RTYR REB161(W/O NUT)
C101	87-018-205-080		CAP, CERA-SOL 0.022	VR401	87-NB7-602-010		VR,RTYR 10KAX1 1 V
C203	87-010-405-040		CAP,E 10-50	VR501	83-NM1-627-010		VR,10KB RK11K1130
C204	87-A10-586-040		CAP,E 47-35 7L SR	W103	88-913-121-110		FF-CABLE,13P 1.25
C205	87-018-208-080		CAP 0.047-50F	W104	88-911-091-110		FF-CABLE,11P 1.25
C206	87-018-205-080		CAP, CERA-SOL 0.022	X201	87-A70-075-080		VIB,CER 4.19MHZ CRHF

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
AC2	C.B			DECK	C.B		
AC1	C.B			C0N105	87-099-753-019		CONN,11P H 9604
△ FC1	87-A90-505-080		FUSE CLAMP,TP00351-51	C0N301	86-ZM3-604-019		CON ASSY,3P-PB
△ FC2	87-A90-505-080		FUSE CLAMP,TP00351-51	C0N351	86-ZM3-605-019		CON ASSY,8P-RPB
△ F101	87-035-366-010		FUSE, 2.5A 250V	SFR1	87-024-581-089		SFR, 3.3K DIA 6H
△ PT101	87-NH8-606-010		PT,7NH-8H	SOL1	82-ZM1-618-010		SOL ASSY, 27
△ SW101	87-A90-234-010		SW,SL 1-2-2 SW2201	SOL2	82-ZM1-618-010		SOL ASSY, 27
△ T1	87-A60-317-010		TERMINAL, 1P MSC	SW1	87-A90-248-010		SW, MICRO ESE11SH2CXQ
△ T2	87-A60-317-010		TERMINAL, 1P MSC	SW2	87-A90-248-010		SW, MICRO ESE11SH2CXQ
SUB	C.B			SW3	87-A90-248-010		SW, MICRO ESE11SH2CXQ
C601	87-010-403-080		CAP, ELECT 3.3-50V	SW4	87-A90-248-010		SW, MICRO ESE11SH2CXQ
C602	87-010-403-080		CAP, ELECT 3.3-50V	SW5	87-A90-248-010		SW, MICRO ESE11SH2CXQ
C603	87-010-403-080		CAP, ELECT 3.3-50V	W1	82-ZM3-601-019		RBN-CORD,4P-75
C604	87-010-403-080		CAP, ELECT 3.3-50V				
C605	87-010-263-080		CAP, ELECT 100-10V				
C606	87-010-405-080		CAP, ELECT 10-50V				
C607	87-010-401-080		CAP, ELECT 1-50V				
W601	88-906-371-110		FF-CABLE,6P 1.25				
W604	88-913-061-110		FF-CABLE,13P 1.25				

TRANSISTOR ILLUSTRATION



E C B

2SC535
2SC19230



E C B

CSD655E
CSD1489B
CSB1058B
2SA952
C2N5551
2SC2001



G S D

2SK439



E C B

2SA933S DTC144ESA
2SC1740 DTA114YSA
DTC114ES DTC143XSA
DTA143ESA DTA114ES
DTA144WSA



B C E

2SB1370



B C E

2SB1626
2SD2495



E C B

2SC3331
2SA1318



S D G

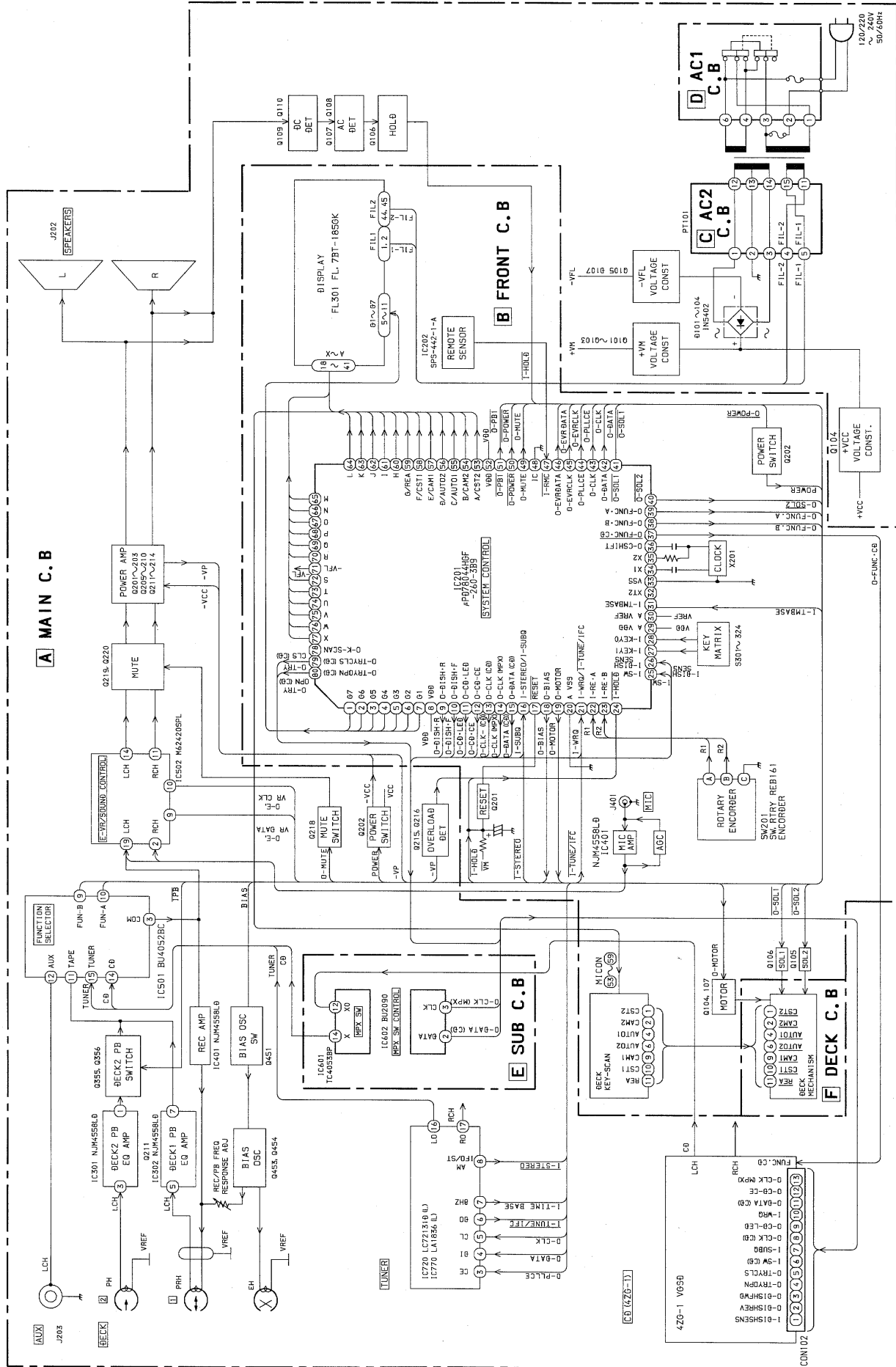
2SK2541



E C B

2SC5395

BLOCK DIAGRAM (MAIN / FRONT)



1 2 3 4 5 6 7 8 9 10 11 12 13 14

A

B

C

D

E

F

G

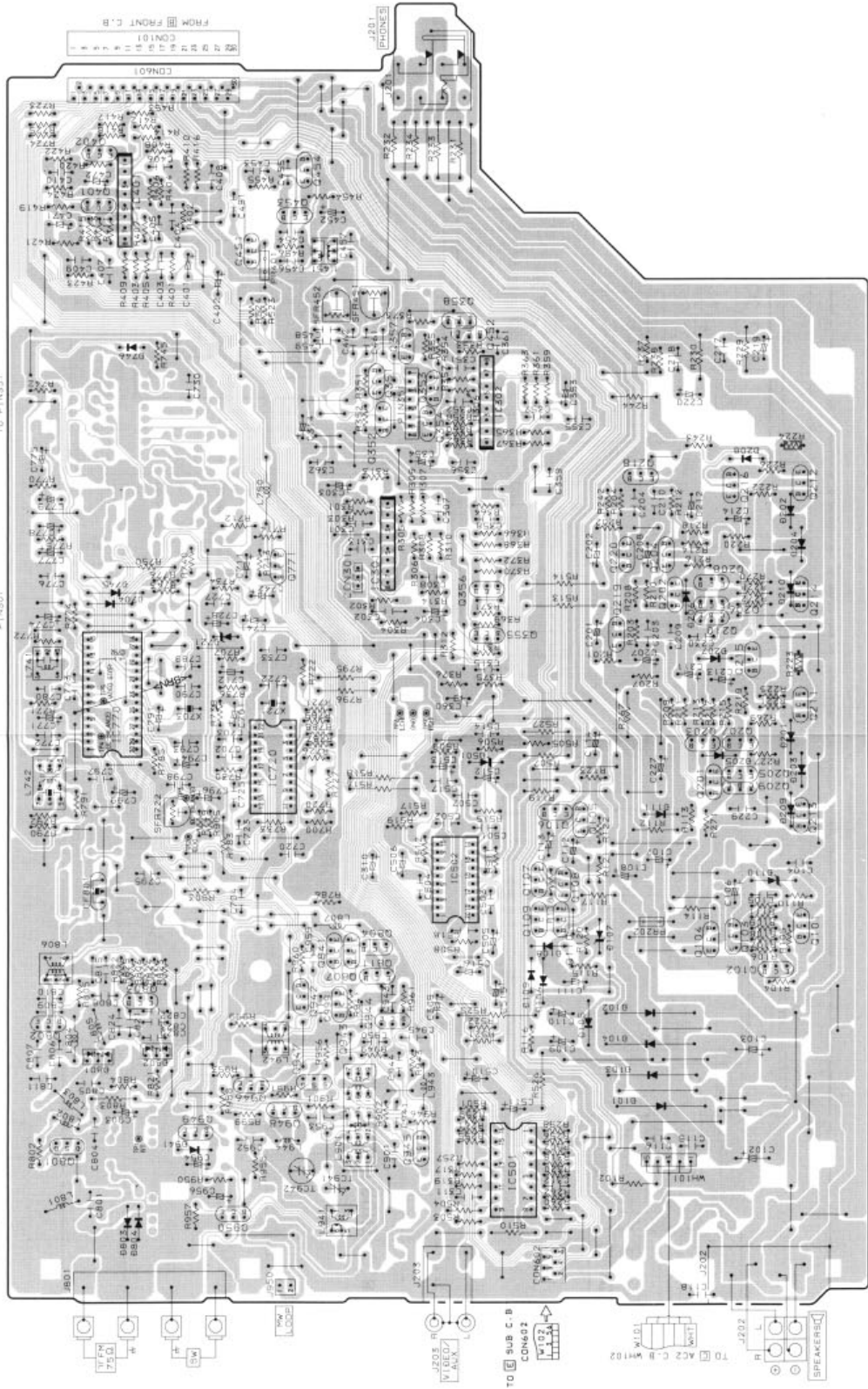
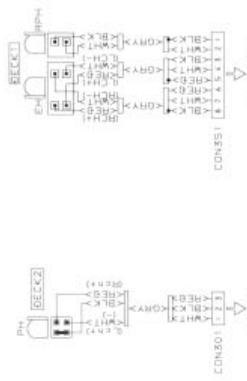
H

I

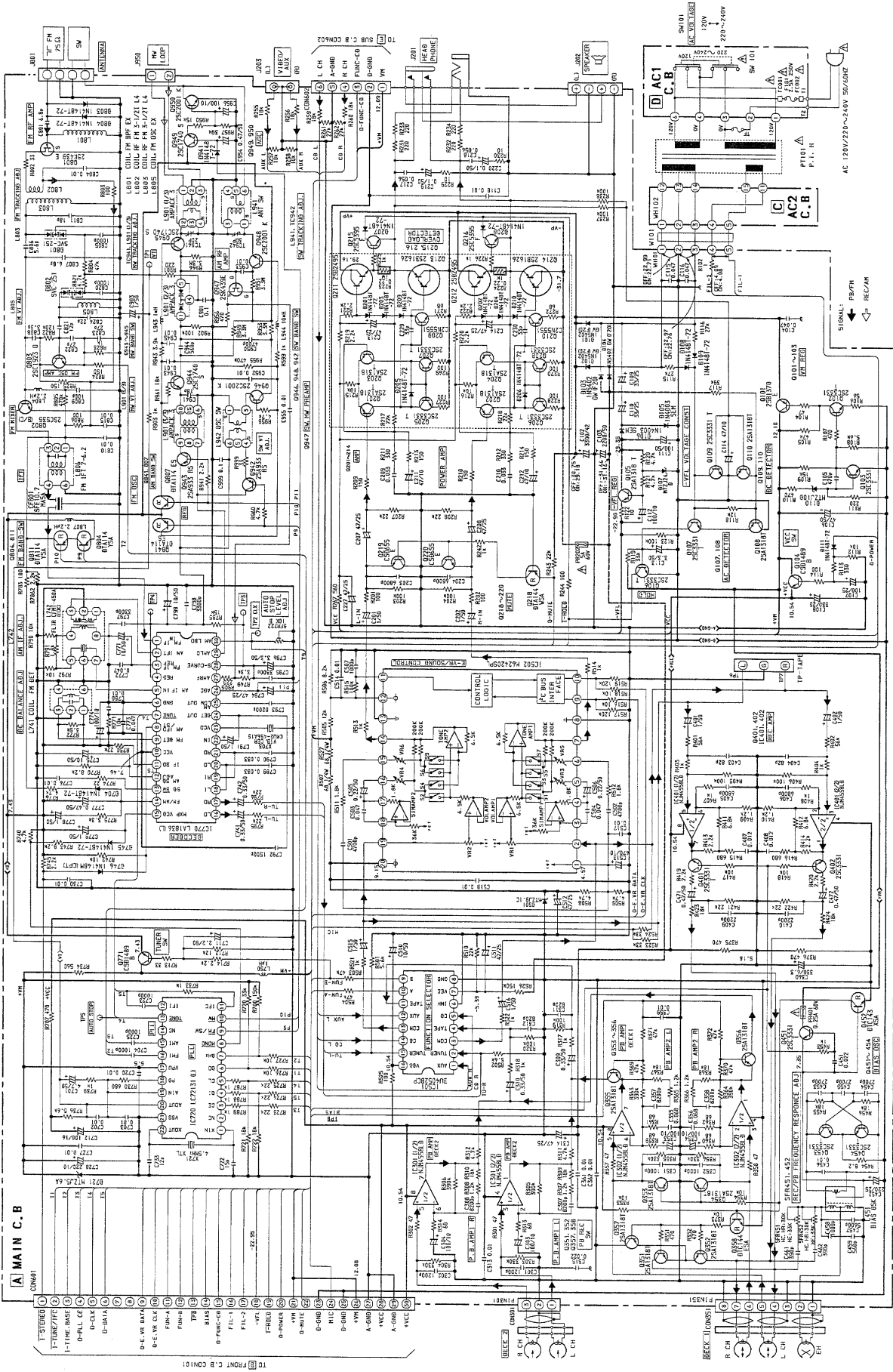
J

K

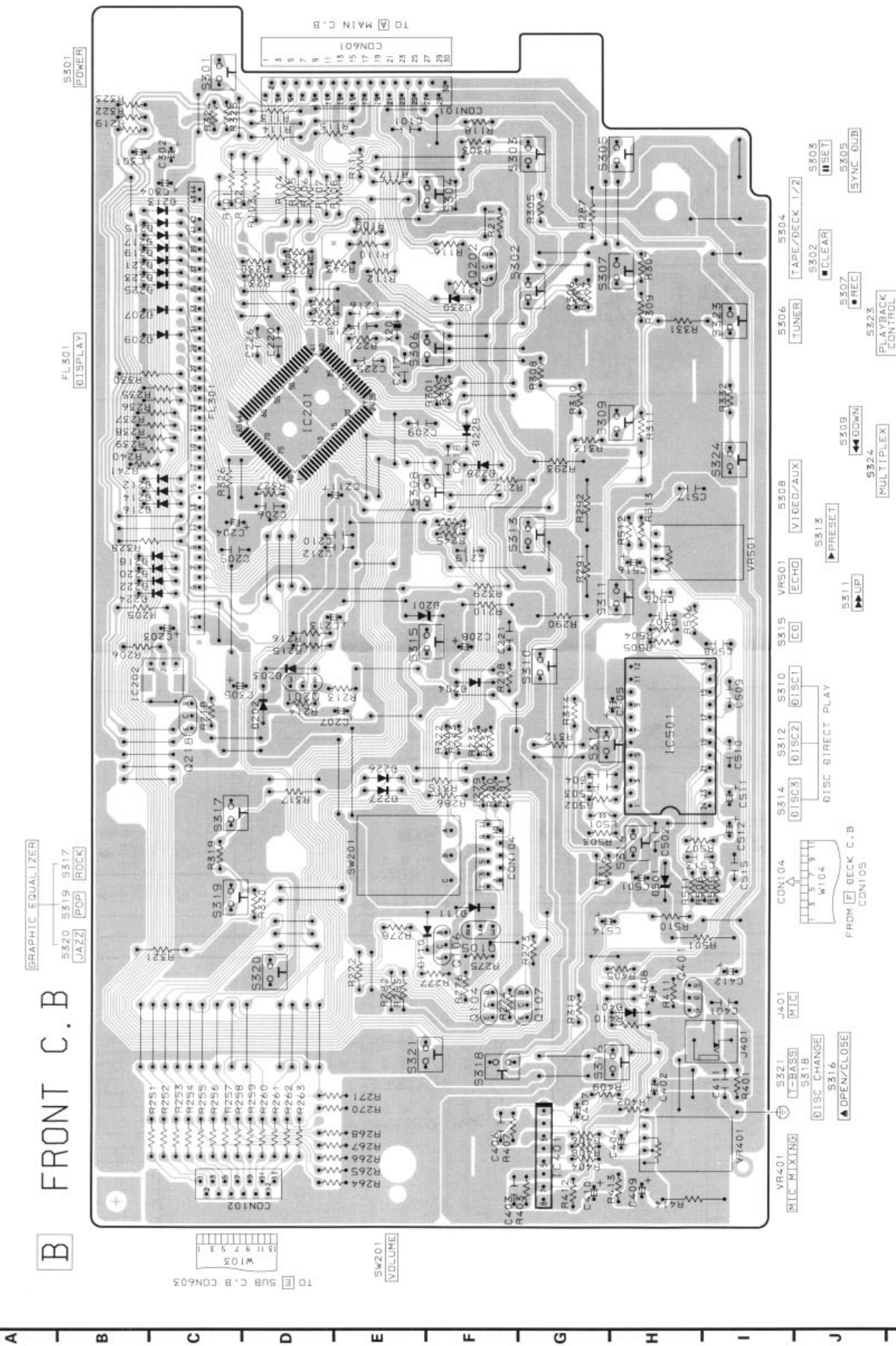
A MAIN C.B



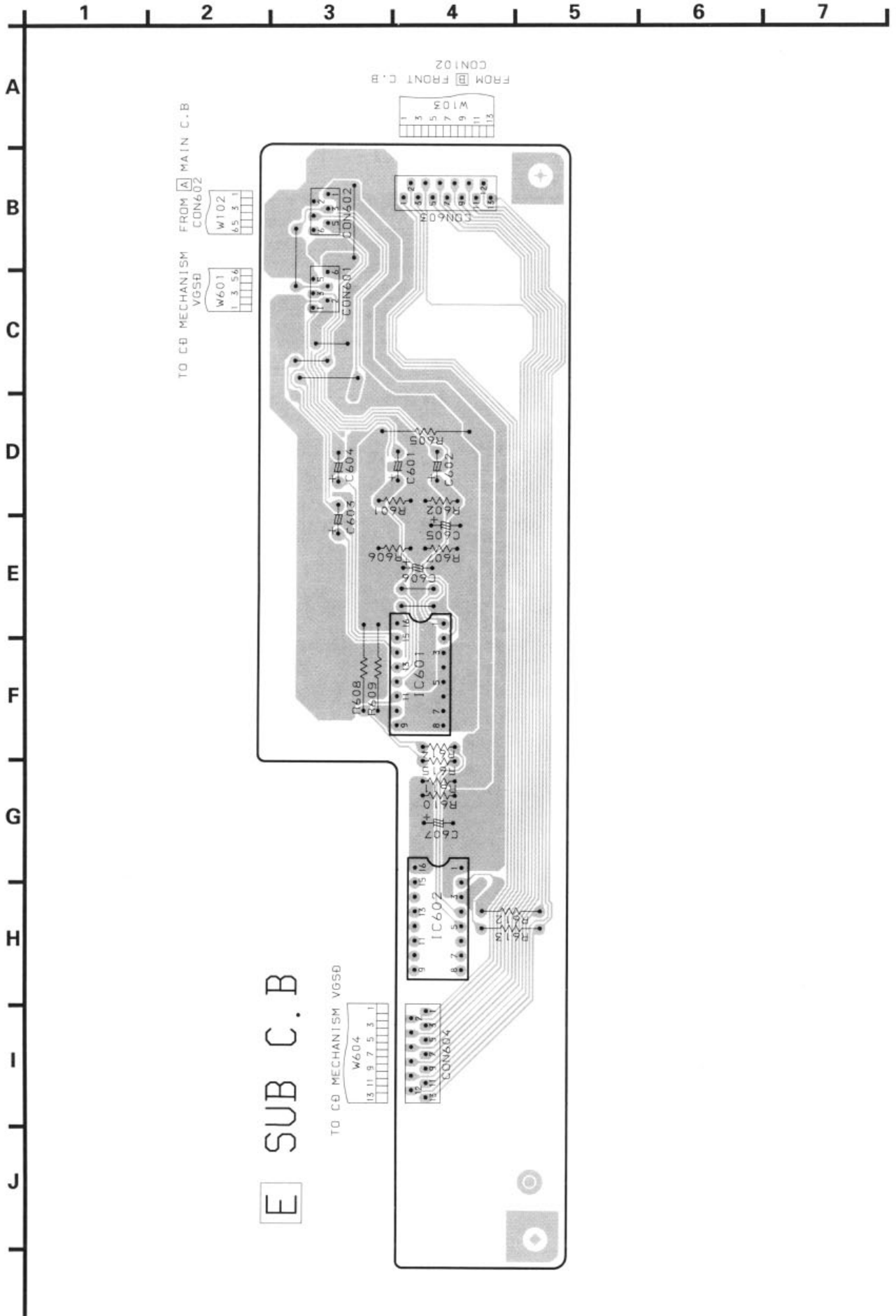
SCHEMATIC DIAGRAM - 1 (MAIN)



1 2 3 4 5 6 7 8 9 10 11 12 13 14



B FRONT C.B



E SUB C.B.

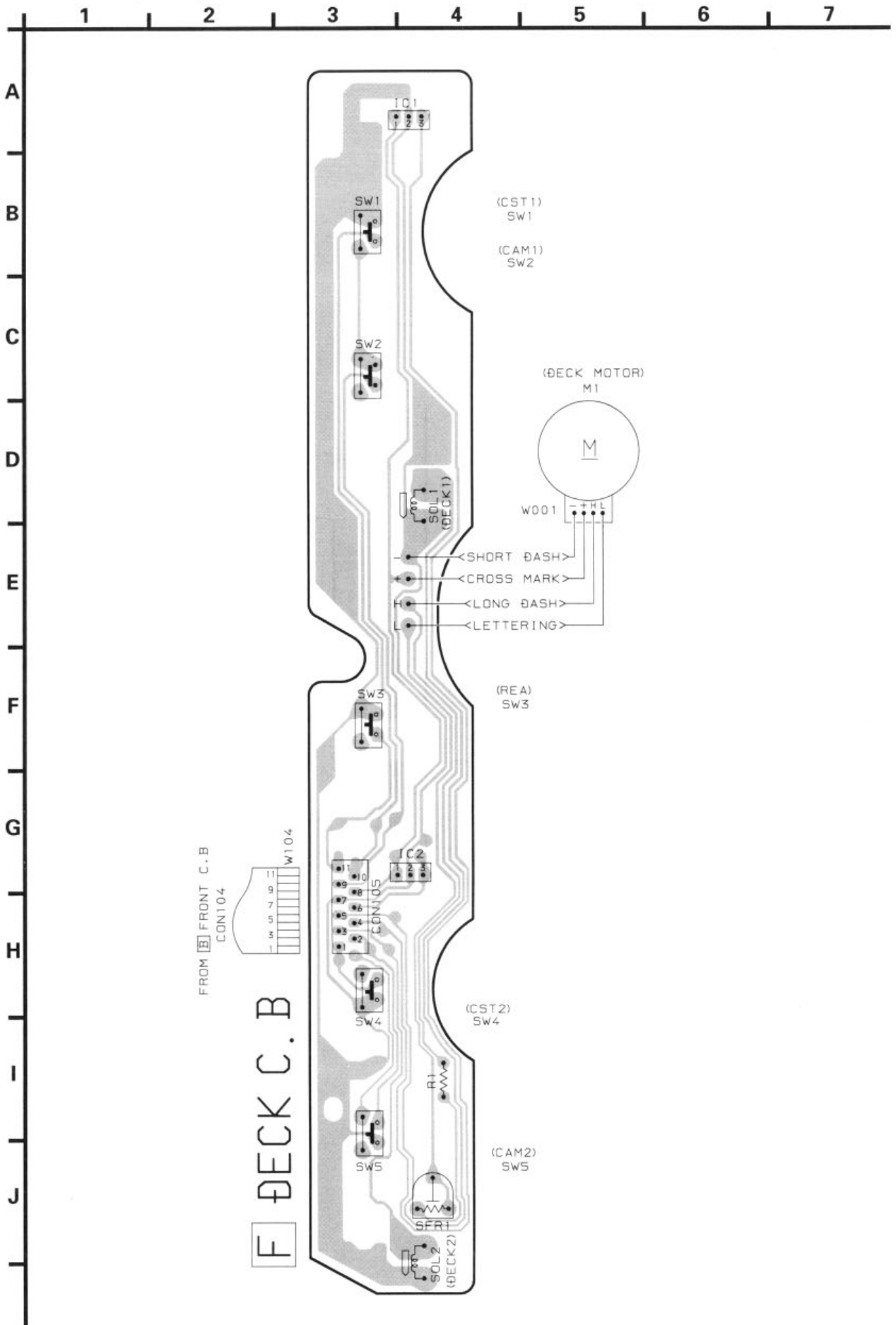
TO C.B. MECHANISM VG5B
 W601
 1 3 5 6

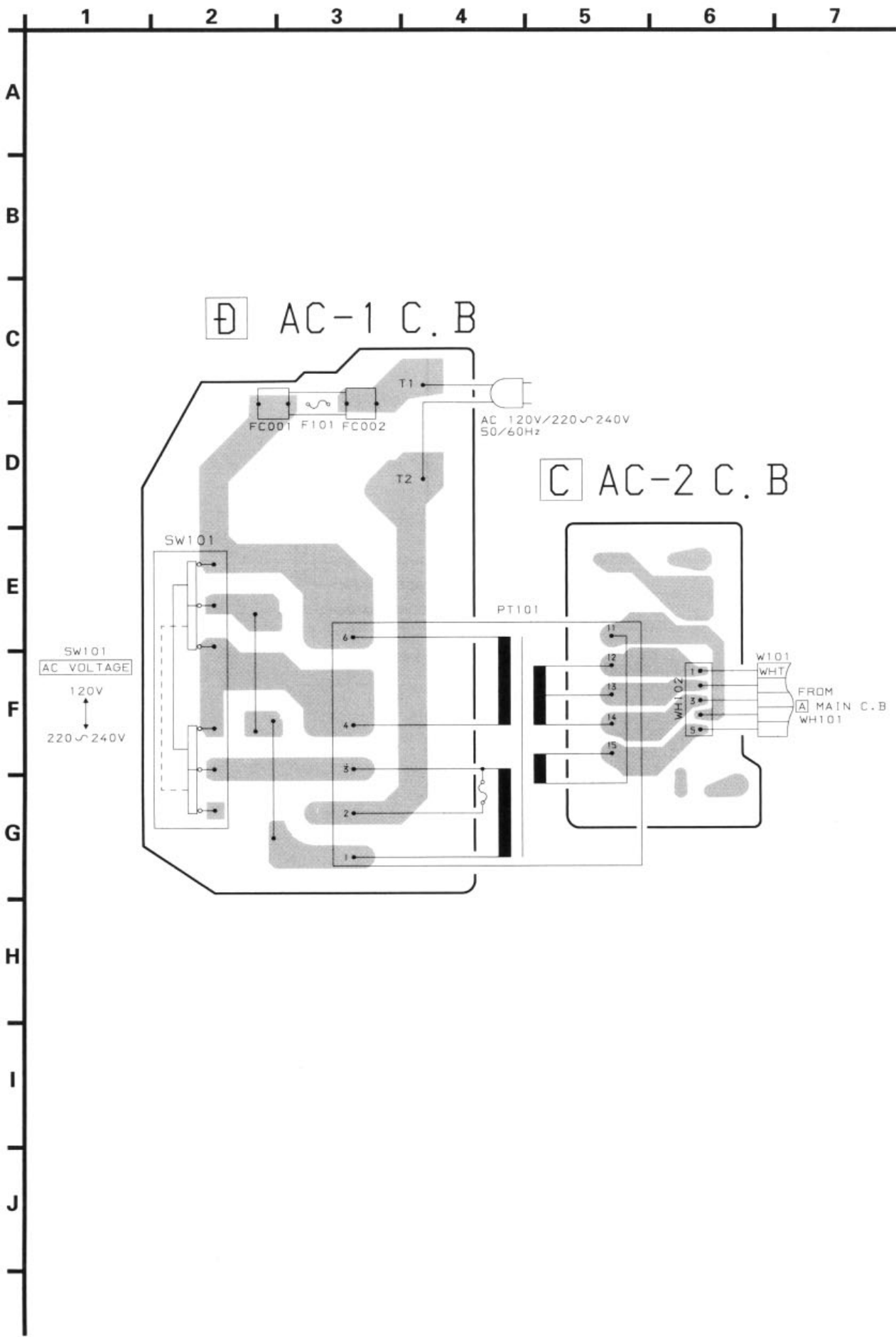
FROM MAIN C.B. CON602
 W102
 6 5 3 1

TO C.B. MECHANISM VG5D
 W604
 13 11 9 7 5 3 1

FROM FRONT C.B. CON102
 W103
 1 3 5 7 9 11 13

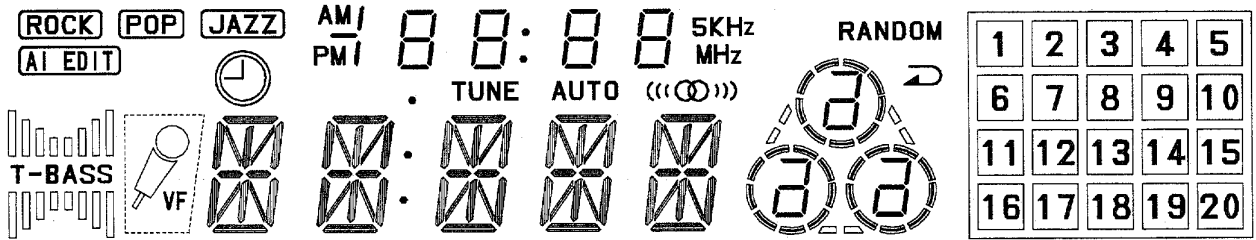
WIRING - 4 (DECK)



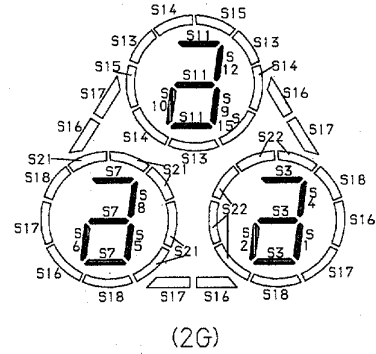
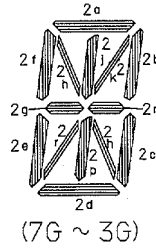
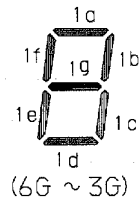


FL (7BT-185GK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT



SEGMENT DESIGNATION



ANODE CONNECTION

	7G	6G	5G	4G	3G	2G	1G
P1	2d	2d	2d	2d	2d	S1	20
P2	2j, 2p	2j, 2p	2j, 2p	2j, 2p	2j, 2p	S2	19
P3	2n	2n	2n	2n	2n	S3	18
P4	2r	2r	2r	2r	2r	S4	17
P5	2c	2c	2c	2c	2c	S5	16
P6	2e	2e	2e	2e	2e	S6	15
P7	2n	2n	2n	2n	2n	S7	14
P8	2q	2q	2q	2q	2q	S8	13
P9	2f	2f	2f	2f	2f	S9	12
P10	2b	2b	2b	2b	2b	S10	11
P11	2k	2k	2k	2k	2k	S11	10
P12	2h	2h	2h	2h	2h	S12	9
P13	2a	2a	2a	2a	2a	S13	8
P14	VF	.	TUNE	AUTO	(((()))	S14	7
P15		o	o (below)	—	MHz	S15	6
P16	AI EDIT	—	o (upper)	—	KHz	S16	5
P17	⌚	—	—	—	5	S17	4
P18	PM	1d	1d	1d	1d	S18	3
P19	—	1e	1e	1e	1e	—	2
P20		1c	1c	1c	1c	—	1
P21	AM	1g	1g	1g	1g	S21	—
P22	(JAZZ)	1f	1f	1f	1f	S22	—
P23	(POP)	1b	1b	1b	1b	—	—
P24	(ROCK)	1a	1a	1a	1a	RANDOM	—
P25	—	—	—	—	—	—	—

IC DESCRIPTION

IC, μ PD78044HGF-260-3B9

Pin No.	Pin Name	I/O	Description															
1~7	G7~G1	O	FL grid output.															
8	VDD	-	Power supply input.															
9	O-DISH-R	O	CD turntable reverse rotation output.															
10	O-DISH-F	O	CD turntable forward rotation output.															
11	O-CD-LED	O	CD flash window LED ON/OFF output.															
12	O-CDCE	O	CDCE output.															
13	O-CLK(CD)	O	CLOCK output (CD).															
14	O-CLK(MPX)	O	CLOCK output (MPX).															
15	O-DATA(CD)	O	DATA output.															
16	I-STEREO / I-SUBQ	I	Tuner stereo input / SUB-Q input.															
17	RESET	-	Reset input.															
18	O-BIAS	O	DECK bias control ON/OFF output.															
19	O-MOTOR	O	DECK motor ON/OFF output.															
20	A VSS	-	GND.															
21	I-WRQ / I-TUNE / IFC	I	CD-WRQ input / Tuner.SD input / IF data input.															
22	I-RE.A	I	Rotary-encoder A input.															
23	I-RE.B	I	Rotary-encoder B input.															
24	I-HOLD	I	Hold AD input.															
25	I-SW	I	CD mecha SW AD input.															
26	I-DISH SENS	I	CD turntable photo sensor A/D converter input.															
27,28	I-KEY1,0	I	Key0, 1 input. (A/D)															
29	A VDD	-	Power supply input.															
30	A VREF	-	Reference voltage. (+5V)															
31	I-TMBASE	I	Reference clock input for timer watch.															
32	XT2	-	Not used.															
33	VSS	-	GND.															
34,35	X1,X2	I/O	511.47Hz oscillator circuit.															
36	O-CSHIFT	O	Micon clock shift output. (active high)															
37	O-FUNC-CD	O	Power supply for CD. Output ON/OFF.															
38	O-FUNC-B	O	Function switch output.															
39	O-FUNC-A		<table border="1"> <thead> <tr> <th></th> <th>AUX</th> <th>TUNER</th> <th>CD</th> <th>TAPE</th> </tr> </thead> <tbody> <tr> <td>O-FUNCA</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>O-FUNCB</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> </tr> </tbody> </table>		AUX	TUNER	CD	TAPE	O-FUNCA	0	0	1	1	O-FUNCB	0	1	0	1
	AUX		TUNER	CD	TAPE													
O-FUNCA	0	0	1	1														
O-FUNCB	0	1	0	1														
40	O-SOL2	O	DECK SOL2 ON/OFF output.															
41	O-SOL1	O	DECK SOL1 ON/OFF output.															
42	O-DATA	O	PLL IC data output.															
43	O-CLK	O	PLL IC clock output.															
44	O-PLLCE	O	PLL IC chip enable.															
45	O-EVRCLK	O	Electrical volume clock output.															

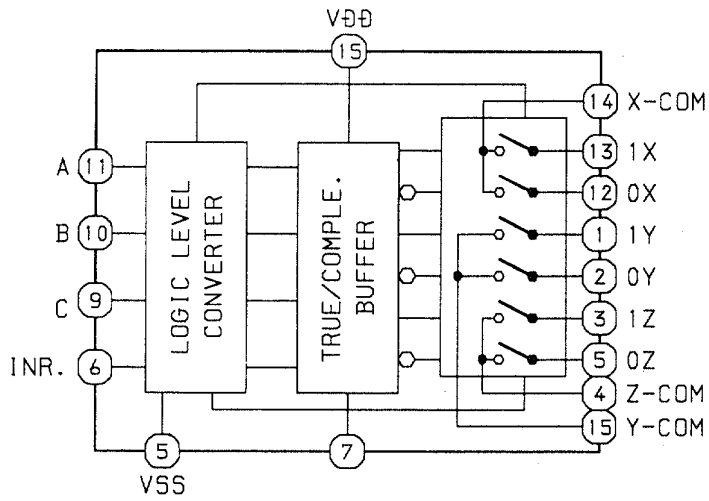
Pin No.	Pin Name	I/O	Description
46	O-EVRDATA	O	Electrical volume data output.
47	I-RMC	I	System remote control signal input.
48	IC	-	Connected to GND.
49	O-MUTE	O	System mute output.
50	O-POWER	O	System power supply ON/OFF output.
51	O-PBT	O	Playback Deck 1 and 2 switch output. "L" = Deck 1.
52	VDD	-	Power supply input.
53	A/CST2	O	FL segment output P24/DECK ($\overline{\text{CST2}}$) sw input.
54	B/CAM2	O	FL segment output P23/DECK ($\overline{\text{CAM2}}$) sw input.
55	C/AUTO1	O	FL segment output P22/DECK ($\overline{\text{AUTO1}}$) sw input.
56	D/AUTO2	O	FL segment output P21/DECK ($\overline{\text{AUTO2}}$) sw input.
57	E/CAM1	O	FL segment output P20/DECK ($\overline{\text{CAM1}}$) sw input.
58	F/CST1	O	FL segment output P19/DECK ($\overline{\text{CST1}}$) sw input.
59	G/REA	O	FL segment output P18/DECK ($\overline{\text{REA}}$) sw input.
60~70	H~R	O	FL segment output P17~P7
71	-VFL	-	Power for FL display.
72~77	S~X	O	FL segment output P6~P1.
78	O-K-SCAN	O	Key scan output .
79	O-TRYCLS (CD)	O	CD tray close data output.
80	O-TRYOPN (CD)	O	CD tray open data output.

IC, LC72131

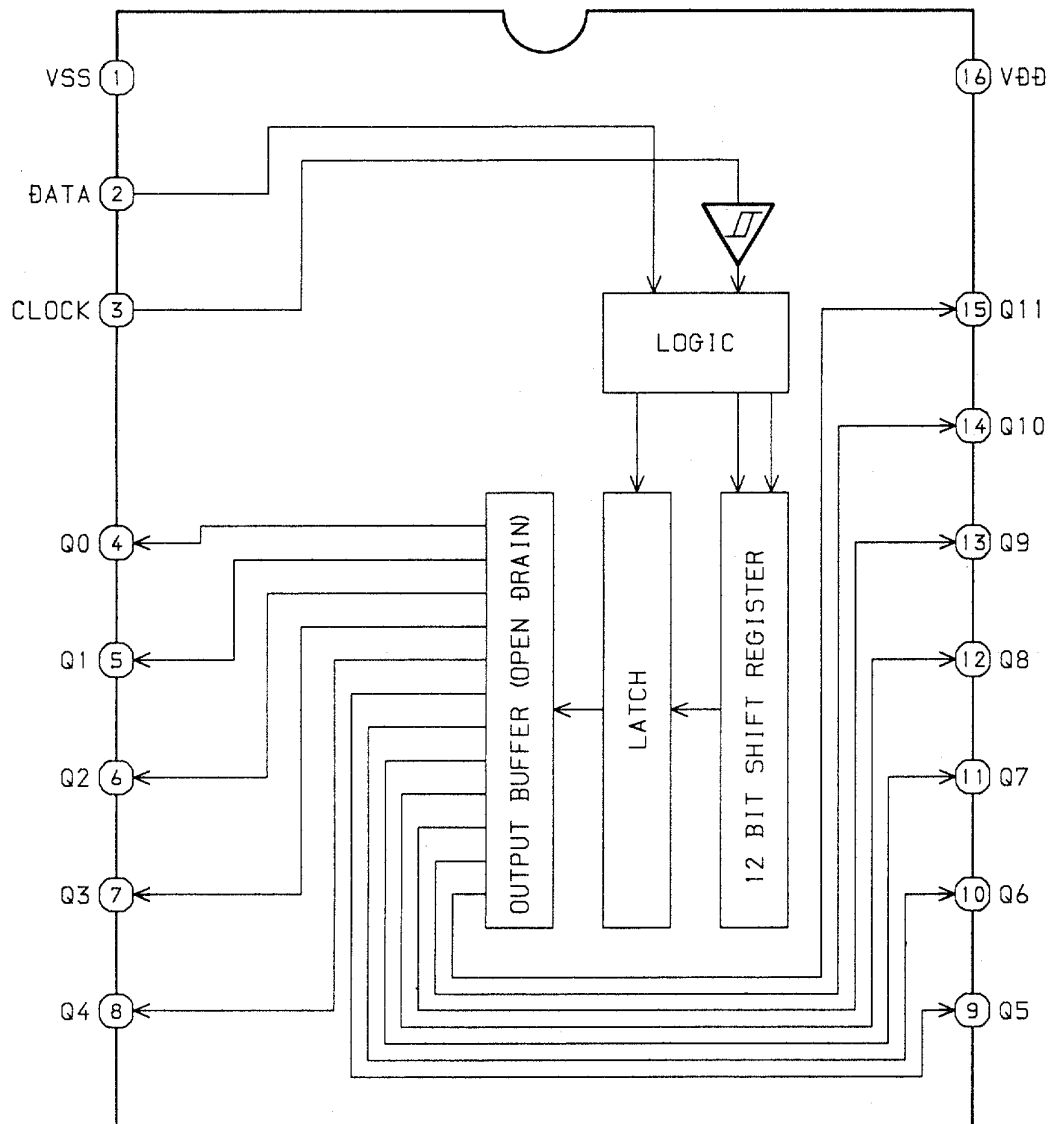
Pin No.	Pin Name	I/O	Description																								
1	XIN	I/O	A crystal oscillator (7.2MHz) is connected between these pins.																								
22	XOUT																										
2	NC	-	Not used.																								
3	CE	I	To enable the IC. Active "H".																								
4	DI	I	Digital data input from CPU when relevant key is operated. Active "H".																								
5	CLK	I	To clock in the data DI.																								
6	DO	O	Digital data output to CPU.																								
7	TM-BASE	O	Outputs a reference clock signal (8Hz) for the clock.																								
8	MONO / BEAT	O	Outputs "H" when MONO / BEAT is switched.																								
9	$\overline{\text{FM}} / \text{AM}$	O	Output "L" or "H" as follows: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th colspan="2">2 BAND</th> <th colspan="3">3 BAND</th> <th colspan="3">3 BAND</th> </tr> <tr> <th>AM</th> <th>FM</th> <th>LW</th> <th>MW</th> <th>FM</th> <th>MW</th> <th>SW</th> <th>FM</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>L</td> <td>H</td> <td>H</td> <td>L</td> <td>H</td> <td>L</td> <td>L</td> </tr> </tbody> </table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	H	L	H	H	L	H	L	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
H	L	H	H	L	H	L	L																				
10	$\overline{\text{MW}}$	O	Outputs "L" or "H" as follows: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th colspan="2">2 BAND</th> <th colspan="3">3 BAND</th> <th colspan="3">3 BAND</th> </tr> <tr> <th>AM</th> <th>FM</th> <th>LW</th> <th>MW</th> <th>FM</th> <th>MW</th> <th>SW</th> <th>FM</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>L</td> <td>H</td> <td>L</td> <td>L</td> <td>L</td> <td>H</td> <td>L</td> </tr> </tbody> </table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	L	L	H	L	L	L	H	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
L	L	H	L	L	L	H	L																				
11	IF-MUTE	O	To control internal counter.																								
12	IFIN	I	General purpose counter input.																								
13	$\overline{\text{TUNE}}$	I	Receives "L" when station is tuned.																								
14	NC	-	Not used.																								
15	A MIN	I	Receives the AM local oscillator frequency signal.																								
16	F MIN	I	Receives the FM local oscillator frequency signal.																								
17	VDD	-	Supply power to IC (+5V).																								
18	PD	O	PLL charge pump output.																								
19	AIN	I	The MOS transistor for PLL active low pass filter.																								
20	AOUT	O																									
21	VSS	-	Ground.																								

IC BLOCK DIAGRAM

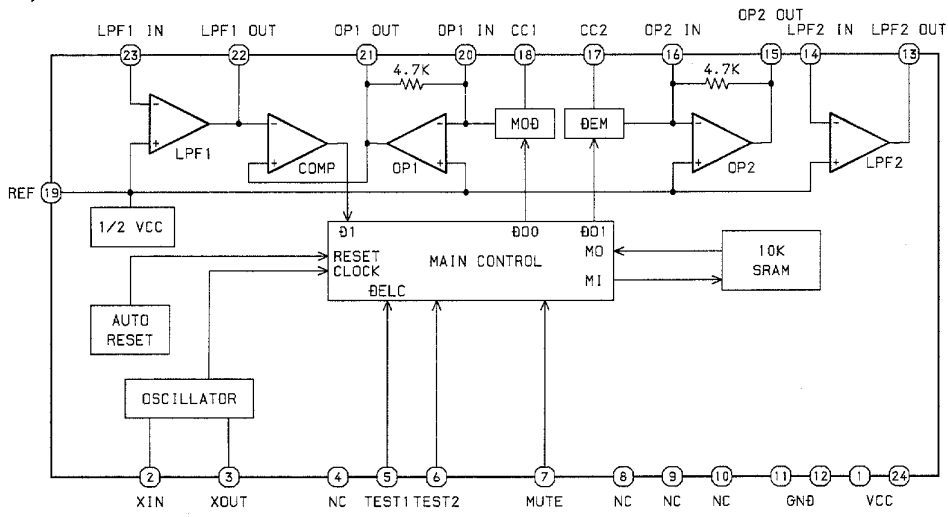
IC, TC4053BP



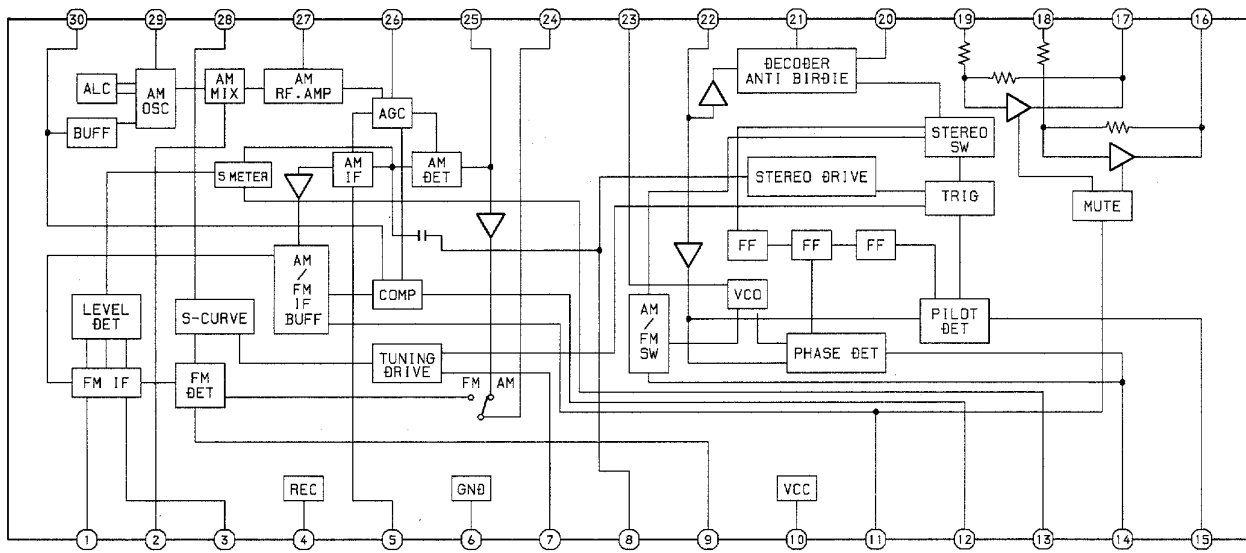
IC, BU2090



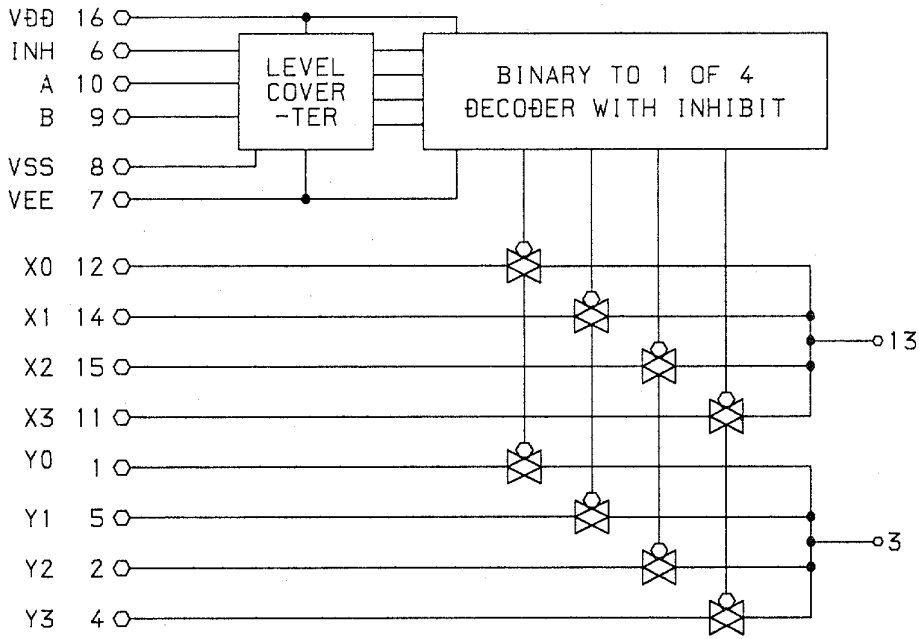
IC, M65843P



IC, LA1836



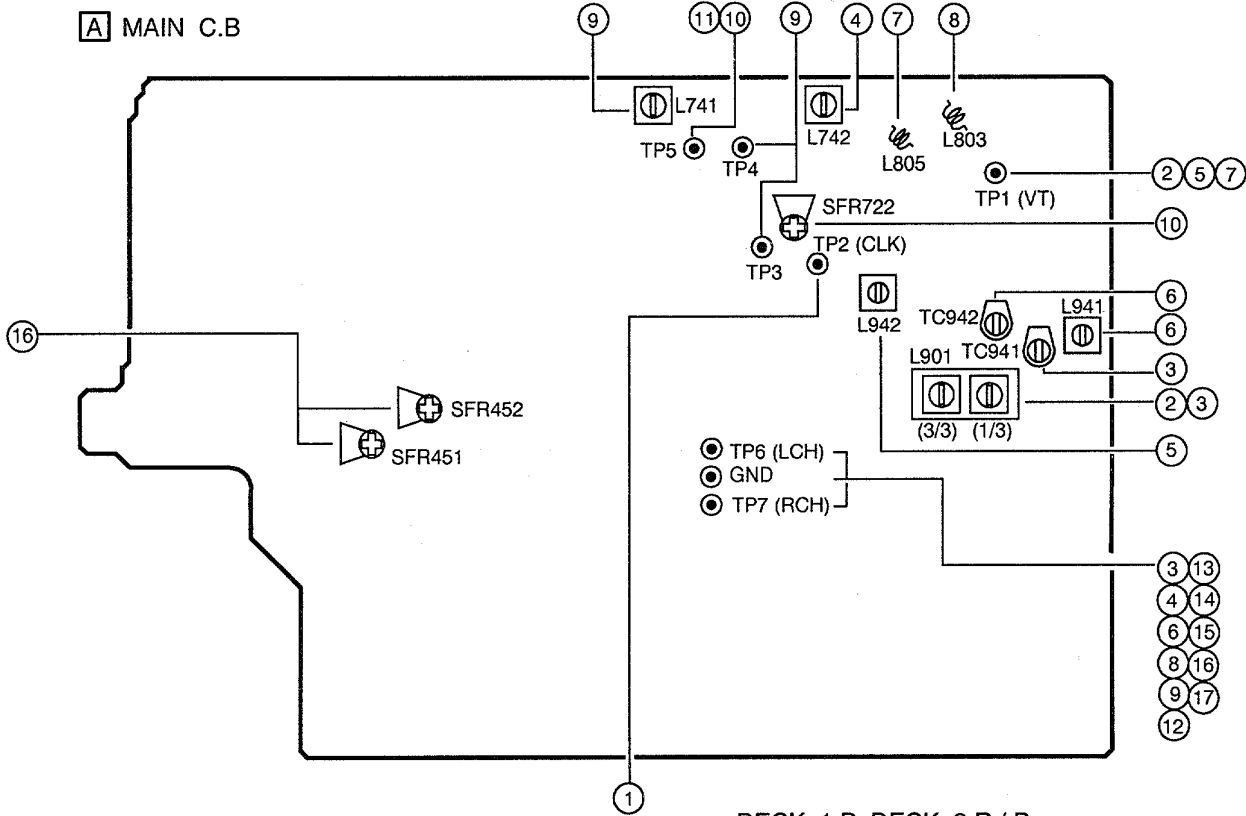
IC, BU4052BCP



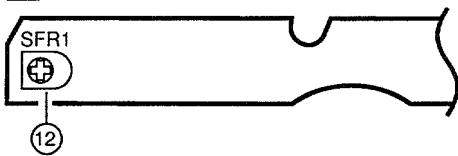
TRUTH TABLE

INHIBIT	A	B	ON SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE

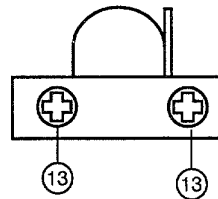
ADJUSTMENT <TUNER / DECK>



F DECK C.B.



DECK-1 P, DECK-2 R / P



< TUNER SECTION >

1. Clock Frequency Check
 - Settings : • Test point : TP2 (CLK)
 - Method : Set to MW(AM) 1602kHz and check that the test point is 2052kHz \pm 0.08kHz.
2. MW VT Adjustment
 - Settings : • Test point : TP1 (VT)
 - Adjustment location : L901(3/3)
 - Method : Set to MW 1710kHz and adjust L901(3/3) so that the test point is 8.5V \pm 0.05V.
3. MW Tracking Adjustment
 - Settings : • Test point : TP6(Lch), TP7(Rch)
 - Adjustment location :
 - L901(1/3) 603kHz
 - TC941 1404kHz
 - Method : Set up TC941 to center before adjustment, the level at 603kHz is adjust to maximum by L901(1/3). Then the level at 1404kHz is adjust to maximum by TC941.
4. AM IF Adjustment
 - Settings : • Test point : TP6(Lch), TP7(Rch)
 - Adjustment location :
 - L742..... 450kHz
5. SW VT Adjustment
 - Settings : • Test point : TP1 (VT)
 - Adjustment location : L942
 - Method : Set to SW 17.9MHz and adjust L942 so that the test point is 7.0V \pm 0.05V.
6. SW Tracking Adjustment
 - Settings : • Test point : TP6(Lch), TP7(Rch)
 - Adjustment location :
 - L941 5.9MHz
 - TC942 17.9MHz
 - Method : Set up TC942 to center before adjustment. The level at 5.9MHz is adjust to maximum by L941. Then the level at 17.9MHz is adjust to maximum by TC942.
7. FM VT Adjustment
 - Settings : • Test point : TP1 (VT)
 - Adjustment location : L805
 - Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.0V(87.5MHz) and adjust L805 so that the test point becomes 7.0V \pm 0.05V (108.0MHz).

< DECK SECTION >

8. FM Tracking Adjustment

Settings : • Test point : TP6(Lch), TP7(Rch)
• Adjustment location : L803 87.5MHz
Method : The level at 87.5MHz is adjusted by L803 so that the test point is $0 \pm 6\text{dB}$ (87.5MHz) and $4\text{dB} \pm 6\text{dB}$ (108.0MHz).

9. DC Balance / Mono Distortion Adjustment

Settings : • Test point : TP3, TP4 (DC balance)
: TP6, TP7 (Distortion)
• Adjustment location : L741
• Input level : 54dB
Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes $0\text{V} \pm 0.04\text{V}$. Next, check that the distortion is less than 1.3%.

10. Auto Stop Level Adjustment

Settings : • Test point : TP5
• Adjustment location : SFR722
• Input level : 54dB
Method : Set to FM 98.0MHz and adjust voltage low (about 0.1V) by SFR722. After that voltage high (about 7.0V) by 2dB down.

11. Auto Stop Level Check

MW

Settings : • Test point : TP5
• Input level : 54dB
Method : Set to AM 999kHz and check that the test point is $58 +10/-15\text{dB}$.

SW

Settings : • Test point : TP5
• Input level : 54dB
Method : Set to SW 12.0MHz and check that the test point is $45\text{dB} \pm 10\text{dB}$.

FM

Settings : • Test point : TP5
• Input level : 54dB
Method : Set to FM 98.0MHz and check that the test point is $20\text{dB} +10/-5\text{dB}$.

12. Tape Speed Adjustment

Settings : • Test tape : TTA-410
• Test point : TP6, TP7
• Adjustment location : SFR1
Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz $\pm 5\text{Hz}$.

13. Head Azimuth Adjustment

Settings : • Test tape : TTA-410
• Test point : TP6, TP7
• Adjustment location : Head azimuth adjustment screw
Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD and REV PLAY mode.

14. PB Frequency Response Check (DECK 1, DECK 2)

Settings : • Test tape : TTA-410
• Test point : TP6, TP7
Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is $0 \pm 5\text{dB}$

15. PB Sensitivity Check (DECK 1, DECK 2)

Settings : • Test tape : TTA-200
• Test point : TP6, TP7
Method : Play back the test tape and check that the output level of the test point is $150\text{mV} \pm 3.0\text{dB}$.

16. REC/PB Frequency Response Adjustment

Settings : • Test tape : TTA-602
• Test point : TP6, TP7
• Input signal : 1kHz / 10kHz (LINE IN)
• Adjustment location : SFR451 (Lch)
SFR452 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 11mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes $12\text{mV} (+1.0\text{dB}) \pm 0.5\text{dB}$ with respect to that of the 1kHz signal.

17. REC/PB Sensitivity Check

Settings : • Test tape : TTA-602
• Test point : TP6, TP7
• Input signal : 1kHz (LINE IN)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 11mV. Record and play back the 1kHz signals and check that the output is $10\text{mV} (-1.0\text{dB}) \pm 2.5\text{dB}$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : (THD 3%)	Less than 9dB [at 87.5MHz] Less than 8dB [at 98.0MHz] Less than 10dB [at 108.0MHz]
S/N 50dB Quieting sensitivity :	Less than 35dB [at 98.0MHz]
Signal to noise ratio :	More than 60dB (STEREO) More than 70dB (MONO) [at 98.0MHz]
Distortion :	Less than 2.0% (STEREO) Less than 1.3% (MONO) [at 98.0MHz]
Auto stop level :	25dB ± 10dB [at 98.0MHz]
Stereo separation :	More than 28dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

<AM(MW) SECTION>

Sensitivity : (S/N 20 dB)	Less than 64dB [at 603kHz] Less than 58dB [at 999 / 1404kHz]
Signal to noise ratio :	More than 30dB [at 999kHz]
Distortion :	Less than 1.5% [at 999kHz]
Auto stop level :	58dB +10/-15dB [at 999kHz]
Intermediate frequency :	450kHz

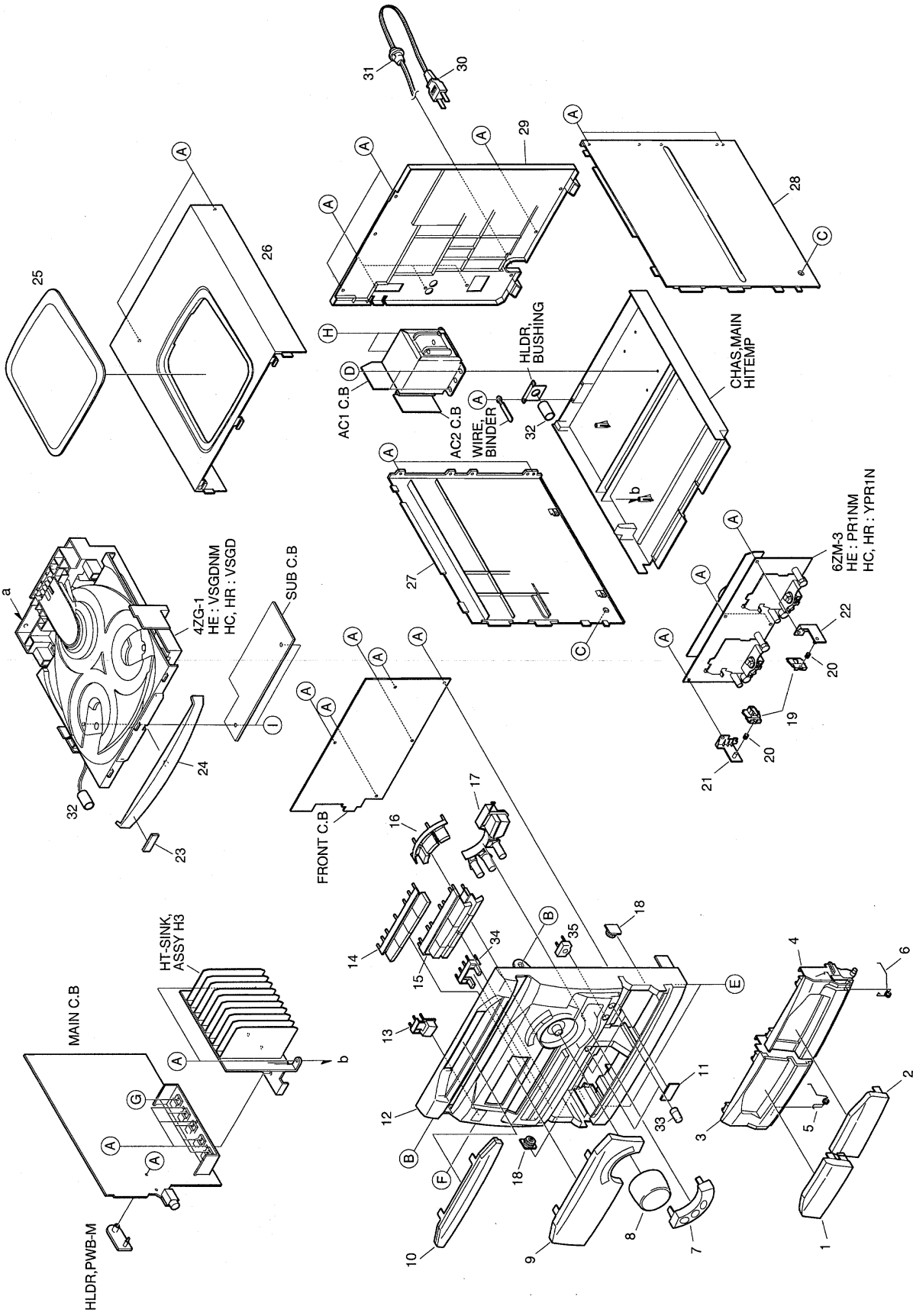
<AM(SW) SECTION>

Sensitivity : (S/N 20 dB)	Less than 47dB [at 5.9MHz] Less than 41dB [at 12.0 / 17.9MHz]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.25% (W.R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB output level :	2.8V ± 3dB (SP OUT 2V)
REC/PB output level :	2.0V ± 3.5dB (SP OUT 2V, 0VU)
Distortion (REC/PB) :	Less than 2.0% (NORMAL, 0VU)
Noise level (PB) :	Less than 25mV (NORMAL, SP OUT 2V, DIN AUDIO)
Noise level (REC/PB) :	Less than 30mV (NORM, SP OUT 2V, DIN AUDIO)
Crosstalk :	More than 55dB (1kHz, NORMAL)
Channel separation :	More than 35dB (1kHz, NORMAL)
Erasing ratio :	More than 55dB (at 125Hz, 10VU, NORMAL)
Test tape :	TTA-602 (NORMAL)

MECHANICAL EXPLODED VIEW 1 / 1

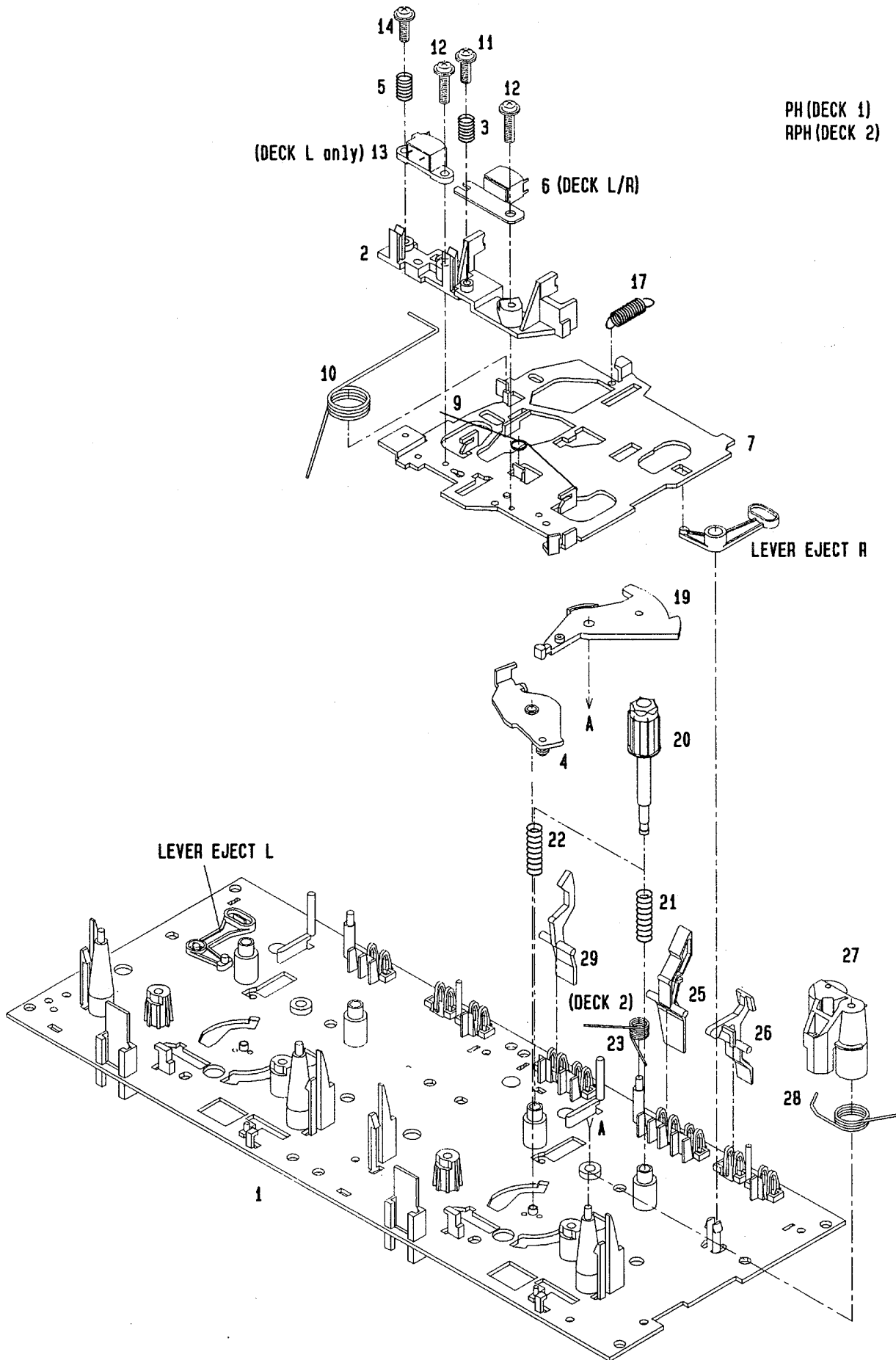


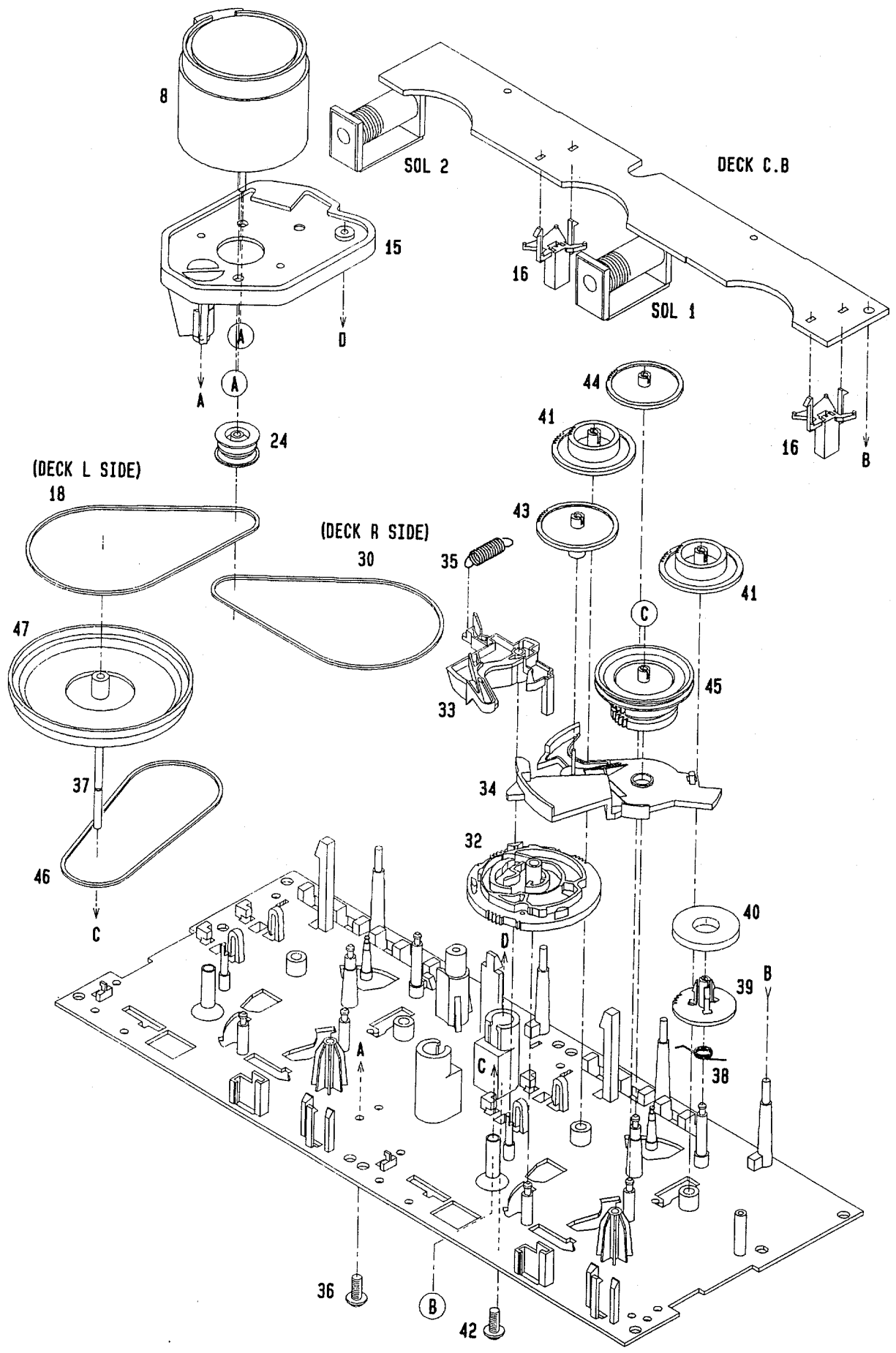
MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NF8-014-010		WINDOW,CASS 1	26	87-NF8-045-010		PANEL, TOP ST
2	87-NF8-015-010		WINDOW,CASS 2	27	87-NF8-042-010		PANEL, LEFT 2 ST
3	87-NF8-025-010		BOX,CASS 1H	28	87-NF8-044-010		PANEL, RIGHT 2 ST
4	87-NF8-026-010		BOX,CASS 2H	29	87-NH8-018-010		CABI, REAR HCST<HC>
5	82-NF5-218-010		SPR-T, EJECT 1 (SIN)	29	87-NH8-019-010		CABI, REAR HEJSTNM<HEJ>
6	82-NF5-219-010		SPR-T, EJECT 2 (SIN)	29	87-NH8-017-010		CABI, REAR HRST<HR>
7	87-NF8-019-010		PANEL, CD	30	87-A80-083-010		AC CORD, HC BLK<HC>
8	87-NF8-012-010		KNOB, RTRY VOL	30	87-050-079-010		AC-CORD ASSY, E<HR, HEJ>
9	87-NH8-003-010		WINDOW, DISPLAY H	31	87-085-185-010		BUSHING, AC CORD (E)
10	87-NF8-016-010		WINDOW, CD	32	87-003-317-010		F-BEAD, FOH2515-LG7
11	81-532-080-010		LABEL, CASS. COMPT	33	87-NB7-021-010		KNOB, RTRY MIC
12	87-NH8-001-110		CABI, FR HR	34	87-NH8-004-010		KEY, PBC
13	87-NF8-005-010		KEY, POWER	35	87-NF8-020-010		PLATE, MIC
14	87-NF8-008-010		KEY, FUN	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
15	87-NF8-010-110		KEY, OPE	B	87-721-097-410		QT2+3-12 GLD
16	87-NF8-007-010		KEY, GEQ	C	87-B10-091-010		UTT2+3-10 W/O BLK
17	87-NF8-006-010		KEY, CD	D	87-743-175-410		UT2+4-16
18	87-NF8-220-010		DMPR, 150	E	87-067-758-010		BVT2+3-12 W/O SLOT
19	82-NF5-229-010		PLATE, LOCK	F	87-723-096-410		QT2+3-10W/O SLOT BL
20	86-NF9-224-010		SPR-C, LOCK	G	87-067-579-010		TAPPING SCREW, BVT2+3-8
21	87-NF4-216-010		HLDR, LOCK 1	H	87-741-172-410		UT2+4-12 W/O SLOT
22	87-NF4-217-010		HLDR, LOCK 2	I	87-084-100-010		RIVET, NYL 3-6.5
23	82-NE6-067-010		BADGE, AIWA 30N				
24	87-NH8-005-010		PANEL, TRAY				
25	86-NFZ-001-010		WINDOW, TOP				

TAPE MECHANISM EXPLODED VIEW 1 / 1



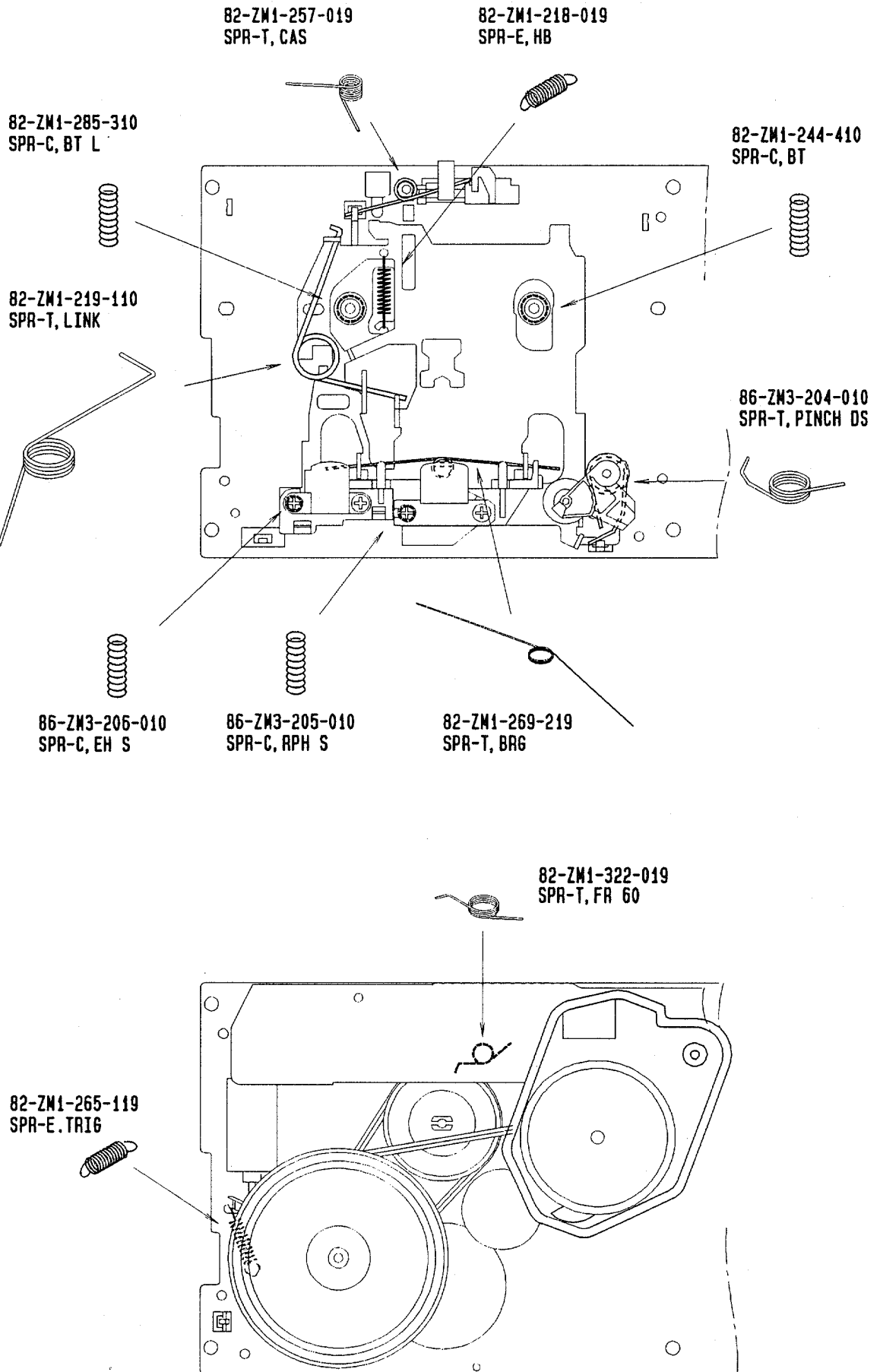


TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-ZM3-212-010		CHAS ASSY,SS	26	82-ZM1-243-019		LVR,STOP
2	86-ZM3-202-010		BASE,HEAD S	27	82-ZM1-344-119		LVR ASSY,PINCH
3	86-ZM3-205-010		SPR-C,RPH S	28	86-ZM3-204-010		SPR-T,PINCHDS
4	82-ZM1-333-210		PLATE,LINK 2	29	82-ZM1-240-119		LVR,REC (DECK 2)
5	86-ZM3-206-010		SPR-C,EH S	30	86-ZM3-210-010		BELT,RS
6	87-A90-403-019		HEAD,RPH MS15R	32	82-ZM3-305-119		GEAR,CAM M2
7	86-ZM3-201-010		CHAS,HEAD S	33	82-ZM1-227-319		LVR,TRIG
8	87-045-347-019		MOT,SHU2L 70(M1)	34	82-ZM3-306-110		LVR,FR M2
9	82-ZM1-269-219		SPR-T,BRG	35	82-ZM1-265-119		SPR-E,TRIG
10	82-ZM1-219-110		SPR-T,LINK	36	87-761-073-419		VPT2+2.6-6 W/O SLOT
11	86-ZM3-209-010		S-SCREW,ASIMUTHS	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
12	86-ZM3-207-010		S-SCREW,RPH	38	82-ZM1-322-019		SPR-T,FR60
13	87-A90-404-019		HEAD,EH LE15B	39	82-ZM1-220-219		GEAR,IDLER
14	86-ZM3-208-010		S-SCREW,EH	40	82-ZM3-616-019		RING MAGNET 4
15	86-ZM3-203-010		HLDR,MOTS	41	82-ZM1-216-319		GEAR,REEL
16	82-ZM1-245-210		HLDR,IC	42	86-ZM3-213-010		S-SCREW,HLDR,MOT 3
17	82-ZM1-218-019		SPR-E,HB	43	82-ZM1-225-219		GEAR,FR
18	82-ZM3-211-010		BELT,RS	44	82-ZM1-226-019		GEAR,REW
19	82-ZM1-222-219		LVR,PLAY	45	82-ZM3-333-310		SLIP DISK ASSY 2
20	82-ZM1-217-419		REEL TABLE	46	82-ZM1-338-010		BELT FR4
21	82-ZM1-244-519		SPR-C,BT	47	82-ZM1-349-019		FLY-WHL RW (DECK L)
22	82-ZM1-285-410		SPR-C,BT L	47	82-ZM3-331-019		FLY-WHL R2W (DECK R)
23	82-ZM1-257-019		SPR-T,CAS	A	87-251-071-417		U+2.6-4
24	82-ZM3-221-010		PULLEY,MOT 2M	B	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
25	82-ZM1-242-019		LVR,CAS	C	82-ZM3-334-010		PW,2.16-6-0.4

SPRING APPLICATION POSITION

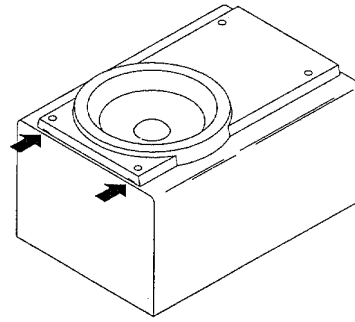


SPEAKER DISASSEMBLY INSTRUCTIONS

Type.1

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

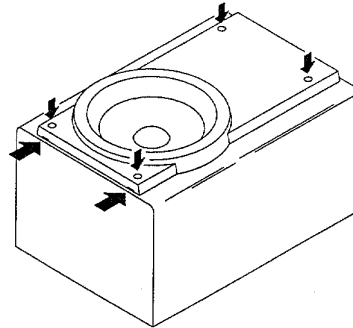
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.2

グリルフレームを外し、4個のゴムキャップをマイナスドライバーで端の方から持ち上げて外すと中にビスが有りますので、ビスを取り外します。矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

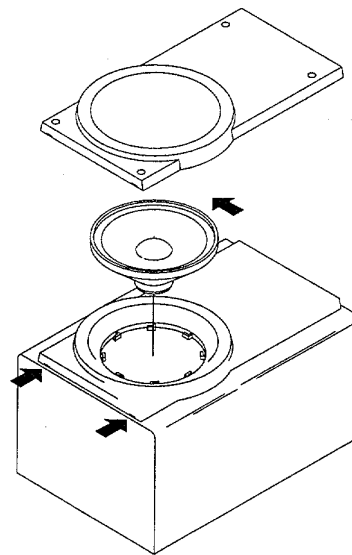
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.3

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットの凹にマイナスドライバーを差し込んで、反時計方向に回転させスピーカーユニットを外してください。スピーカーユニット交換後は時計方向にクリック音がするまで、回転させて取り付けます。

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



SPEAKER PARTS LIST 1 / 1 (SX-NS22)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NSH-001-019		PANEL, FR R
2	87-NSH-002-019		PANEL, FR L
3	87-NSH-005-019		NET
4	87-NS7-611-019		CORD, SPKR
5	87-NSJ-602-019		SPKR, 120
6	86-NSZ-602-019		SPKR, CERA 14

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NH8-910-010		IB, H(EC-H)I<HR>
1	87-NH8-911-010		IB, H(EC-K)I<HC>
1	87-NH8-905-010		IB, H(IE-KIT)M<HE>
2	87-NH8-601-010		RC UNIT, RC-7<HR, HC>
2	87-NH8-601-010		RC UNIT, RC-7<HE>
3	87-043-095-010		WIRE ANTENNA<HR, HC>
3	87-043-095-010		WIRE ANTENNA<HE>
4	87-043-115-010		ANT, FEEDER FM<HE>
4	87-043-115-010		ANT, FEEDER FM<HR, HC>
5	87-A90-054-010		ANT, LOOP AM-CON C<HE>
5	87-A90-054-010		ANT, LOOP AM-CON C<HR, HC>
6	87-050-103-010		CORD, PIN 1PY1.5M<HR, HC>
6	87-050-103-010		CORD, PIN 1PY1.5M<HE>
△	7 87-009-724-010		PLUG, CONVERSION IR39<HC>
△	7 87-A90-312-010		PLUG, CONVERSION WTN-1157R1<HE>
△	7 87-A90-312-010		PLUG, CONVERSION WTN-1157R1<HR>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SPRING	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G-	-
G-	-
G-	-

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